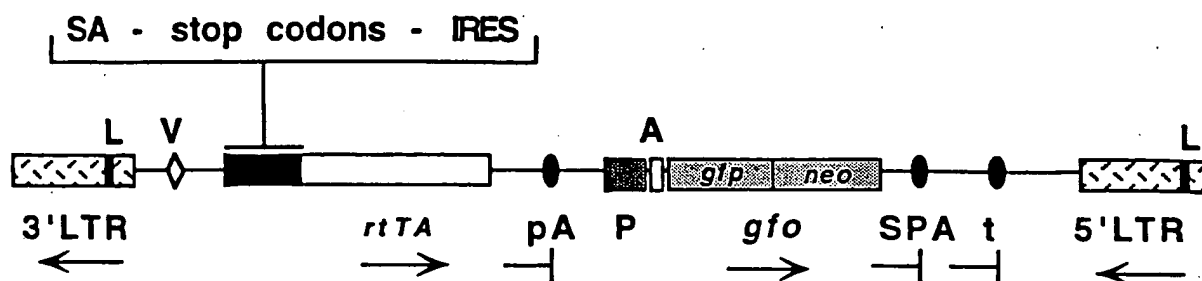


# The Retroviral Vector



LTR, long terminal repeats

L, loxP

V, VDE recognition sequence

SA, splice acceptor

IRES, internal ribosome entry site

rtTA, reverse tetracycline dependent transactivator

pA, polyA addition signal

P, promoter

A, adenovirus tripartite leader sequences

gfp, gfp-neo hybrid gene

gfp, green fluorescent protein

neo, neomycin phosphotransferase gene

SPA, synthetic polyA site

t, transcription terminator

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Figure 1

# Insertional Mutagenesis

## A. target gene

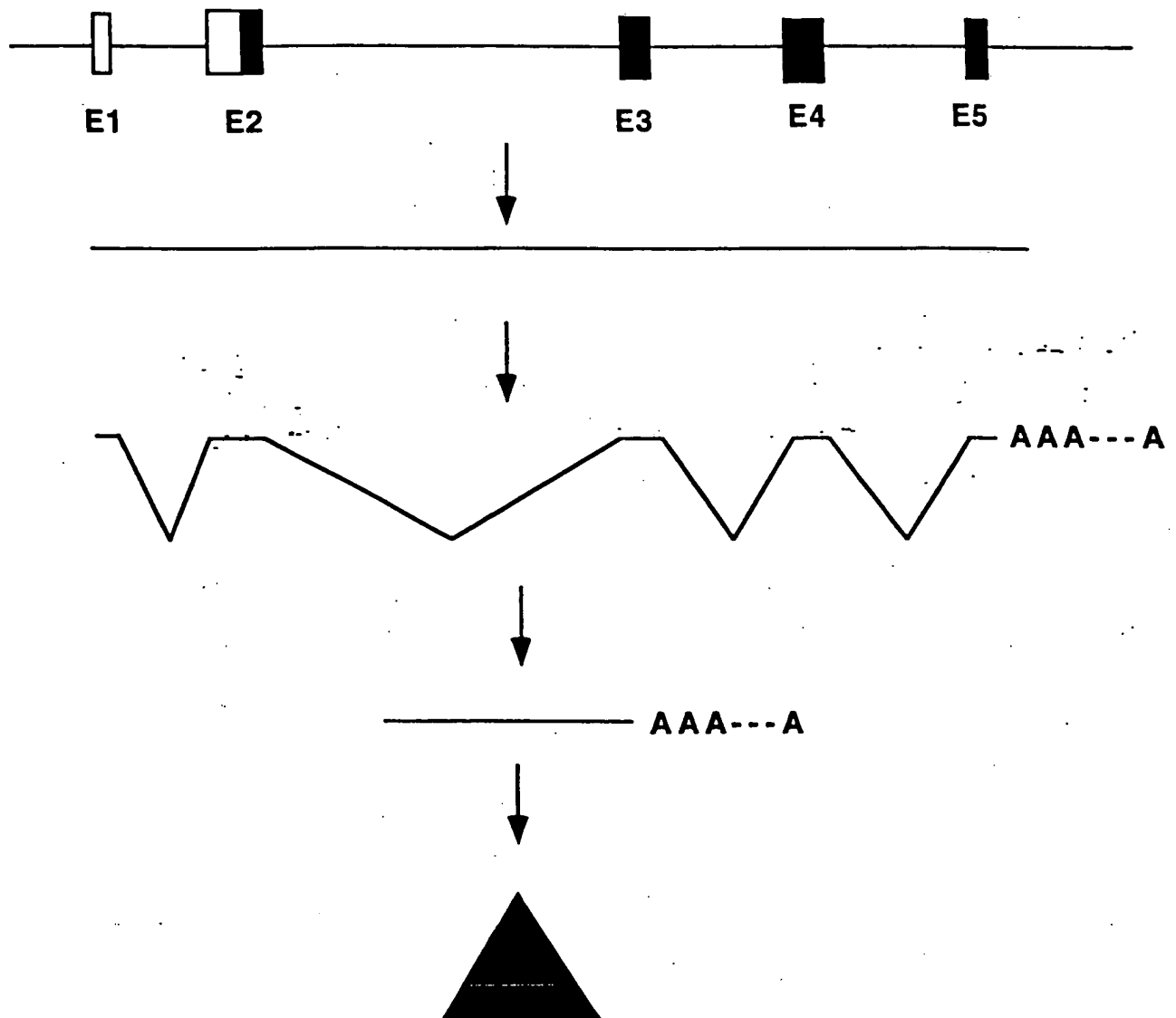
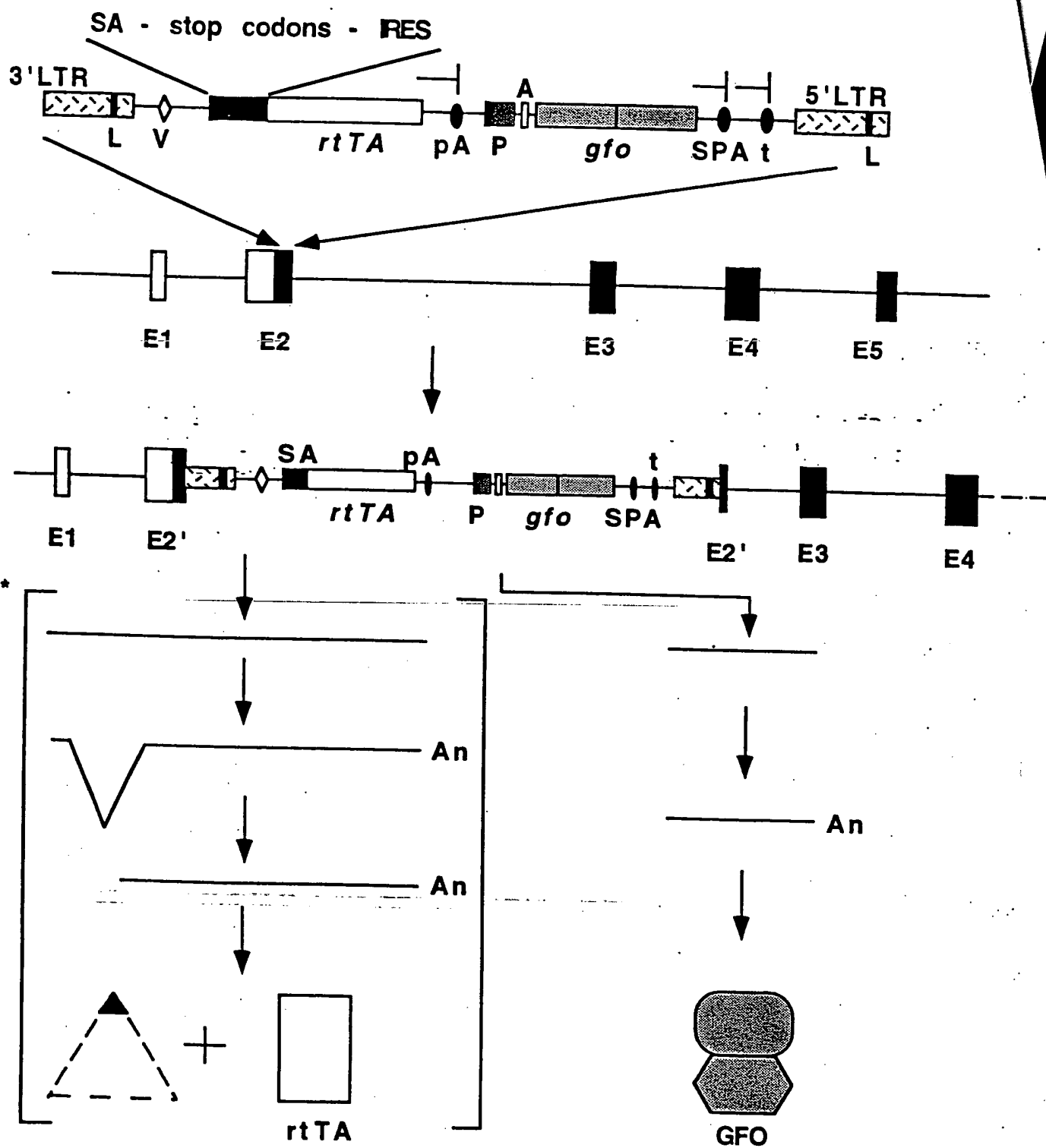


Figure 2

# Insertional mutagenesis

## B. insertion into an exon

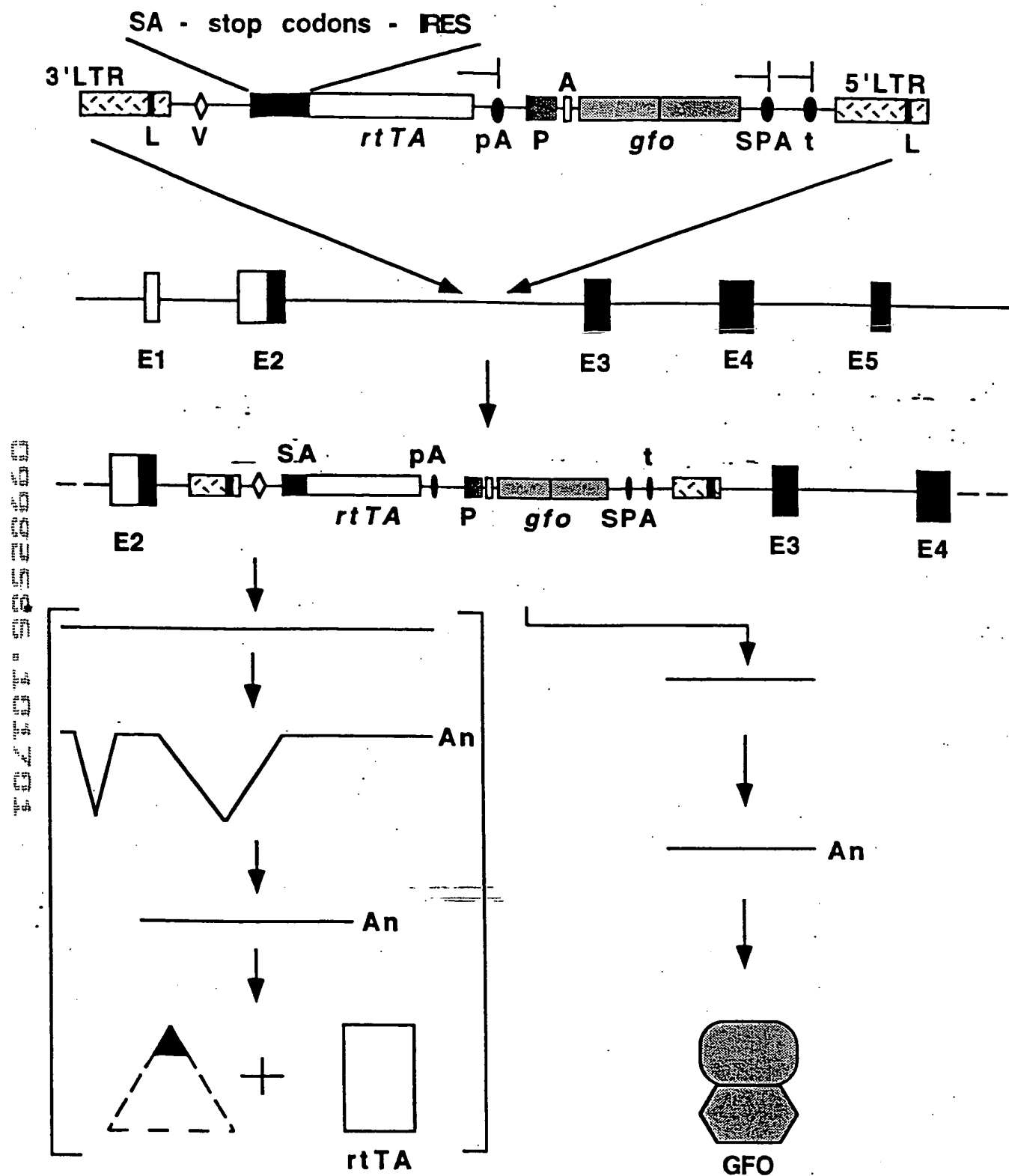


\*pathway active only when gene X is expressed

Figure 3

# Insertional Mutagenesis

## C. insertion into an intron



\*pathway active only when gene X is expressed

Figur 4